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	Application No.	Applicant(s)	
Notice of Allowability	10/619,581	RHEE ET AL.	
	Examiner	Art Unit	
	Walter L. Lindsay, Jr.	2812	
The MAILING DATE of this communication appears All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R	(OR REMAINS) CLOSED in this apply or other appropriate communication (IGHTS). This application is subject to 3 and MPEP 1308.	plication. If not include will be mailed in due	ed course. THIS
1. This communication is responsive to Response filed 11/16	<u>5/2004</u> .		٠
2. The allowed claim(s) is/are <u>13-30</u> .			
3. \boxtimes The drawings filed on <u>16 November 2004</u> are accepted by	the Examiner.		
4. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in Application No. 4. Certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 5. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient. 6. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date (c) DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.			
Attachment(s) 1. Notice of References Cited (PTO-892) 2. Notice of Draftperson's Patent Drawing Review (PTO-948) 3. Information Disclosure Statements (PTO-1449 or PTO/SB/Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	Paper No./Mail Da	r (PTO-413), ate ment/Comment	owance
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DETAILED ACTION

Allowable Subject Matter

1. Claims 13-21 are allowed.

2. The following is an examiner's statement of reasons for allowance: the prior art, either singly or in combination fails to anticipate or render obvious, the limitations of:

...depositing a lower poly-SiGe layer having a columnar crystalline structure over the gate insulating layer;

depositing an amorphous Si layer over the lower poly-SiGe layer; and crystallizing the amorphous Si layer to obtain an upper poly-Si layer having a random crystalline structure, as required by claim 13;

...depositing at least one intermediate layer having an amorphous structure over the lower poly-SiGe layer;

depositing an amorphous Si layer over the at least one intermediate layer; and crystallizing the amorphous Si layer to obtain an upper poly-Si layer having a random crystalline structure, as required by claim 22;

... depositing an amorphous intermediate layer over the lower poly-SiGe layer; depositing an upper poly-Si layer over the amorphous intermediate layer; and crystallizing the amorphous intermediate layer to obtain a crystallized intermediate layer having a random crystalline structure between the lower poly-SiGe layer and the upper poly-Si layer, as required by claim 30.

Additionally claim 13 is allowed in view of the information provided in first paragraph and second paragraph of page 3, pertaining to paragraphs [0085], [0090]

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and [0095] of the specification which, give reasons to expect results not common to prior art annealing processes of amorphous silicon.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Walter L. Lindsay, Jr. whose telephone number is (571) 272-1674. The examiner can normally be reached on Monday-Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John F Niebling can be reached on (571) 272-1679. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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